

PATENT

Application # 10/730,577

Attorney Docket # 2000-0222 (1014-056)

AMENDMENTS

AMENDMENTS TO THE CLAIMS

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1. (Original) A distributed wireless radiation system for facilitating intra-premises distribution of broadband services, comprising:
 - a source broadband interface device connected for receiving incoming signals for in-premises cable distribution of broadband signals;
 - in-premises cabling comprising cables connecting the source broadband interface device to selected premised equipment;
 - an adjunct device connected to the broadband interface device and operative for accepting broadband signals, formatting the broadband signals for wireless delivery and providing the formatted broadband signals to the in-premises cabling; and
 - a signal radiation device enabled by the in-premises cabling for radiating the formatted signals to be received by nearby receivers.
2. (Original) The system of claim 1, wherein:
 - the in-premises cabling comprises television cable.
3. (Currently Amended) The system of claim 2, further comprising:
 - a diplexer to extract the formatted broadband signals at a selected location of the in-premises cabling, wherein the diplexer operates to isolate various service signals from the television signals of-transmitted via the television cable.
4. (Original) The system of claim 1, wherein:
 - the signal radiation device comprises an antenna radiating at RF frequencies.
5. (Original) The system of claim 1, wherein:
 - the signal radiation device comprises leaky coaxial cable radiating at RF frequencies.

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6. (Original) The system of claim 1, wherein:
a source of broadband signals to an in-premises distribution is cable.
7. (Original) The system of claim 1, wherein:
a source of broadband signals to the in-premises distribution is fixed wireless.
8. (Original) The system of claim 1, wherein:
a source of broadband signals to the in-premises distribution is DSL.
9. (Original) The system of claim 1, wherein:
the source broadband interface device is a set top box.
10. (Original) A method of distributing broadband signals within a premises, comprising the steps of:
packetizing incoming broadband signals at a first frequency into RF frequency signals;
modulating the packetized RF frequency signals at a second frequency; and
providing the packetized and modulated RF frequency signals to in-premises cabling for distribution to signal radiation devices located within the premises.
11. (Original) The method of claim 10, further comprising a step of:
transmitting the RF frequency signals on cabling used within the premises for cable television signal distribution.
12. (Original) The method of claim 10,
further comprising a step of using the signal radiation devices to radiate the RF frequency signals, the signal radiation devices comprising radiative antennas coupled to the cabling near receiving equipment.
13. (Original) The method of claim 10,

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further comprising a step of using the signal radiation devices to radiate the RF frequency signals, the signal radiation devices comprising a leaky cable of the in-premises cabling.

14. (Original) The method of claim 10, further including a step of:
supplying the broadband signals by external cable.
15. (Original) The method of claim 10, further including a step of:
supplying the broadband signals by fixed wireless.
16. (Original) The method of claim 10, further including a step of:
supplying the broadband signals by DSL.
17. (Currently Amended) A method of distributing signals, comprising:
receiving, at a first device at a first frequency, an input signal comprising ~~broadcast~~
broadband information;
converting the received broadband information to a packet format;
modulating the converted broadband information on an RF second frequency;
transmitting the modulated converted broadband information at the RF second frequency
and via on-premise cabling;
isolating the transmitted modulated converted broadband information at the RF second
frequency from the first frequency on the on-premise cabling; and
radiating the isolated broadband information from an antenna coupled to the on-premise
cabling for ~~the a~~ broadcast to one or more wireless receiving devices.
18. (Original) The method according to claim 17, wherein the first device includes a set top
box.

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19. (Original) The method according to claim 17, further including converting the received broadband information to the packet format at a wireless transmission device.
20. (Original) The method according to claim 19, wherein the wireless transmission device includes a port controller, a wireless interface, a media access controller and/or a radio interface.
21. (Original) The method according to claim 19, further including providing a first filtering device receiving the modulated broadband information, wherein the filtering device is coupled to the on-premise cabling.
22. (Original) The method according to claim 21, wherein the filtering device includes a first filter for allowing the first frequency to pass and a second filter for allowing the second frequency to pass.
23. (Original) The method according to claim 22, wherein the filtering device corresponds to a diplexer.
24. (Original) The method according to claim 17, wherein the on-premise cabling includes coaxial cable.
25. (Original) The method according to claim 17, wherein the on-premise cabling includes leaky coaxial cable.
26. (Original) The method according to claim 17, wherein the first device includes a broadband termination interface.
27. (Original) The method according to claim 21, further including providing a second filtering device and a splitter coupled between the first and second filtering devices, wherein the

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second filtering device isolates the broadband information for transmission onto the on-premise cabling and transmission by the antenna.